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wafer when the hole is positioned over said section of the wafer.

The apparatus as claimed in claim 76, wherein the hole is filled with a portion of a fiber-optic cable.

3976. The apparatus as claimed in claim 76, further comprising means for coordinating the generation of the laser beam with the position of the hole.--

REMARKS

Claims 17-35 and 37-78 are pending. New claims 76-78 have been added to cover additional embodiments, support for which can be found on page 14, lines 2-24 of the present specification. No new matter has been added.

Through the publication of European Application 0 738 561 A1 (a copy of the front page is attached), applicant has discovered that Birang et al. filed two U.S. patent applications covering almost the identical subject matter of present claims 76-78. Birang's applications are Serial No. 08/413,982 (filed on March 28, 1995) and Serial No. 08/605,769 (filed on February 22, 1996).

As the present application has an effective filing date of December 28, 1992 (which precedes Birang's first filing date by more than two years), any patent issued on the present application would qualify as prior art against Birang's applications under 35 U.S.C. § 102(e).

Examiner Lee informed the undersigned during a telephone conference today (March 13, 1997) that the previous Amendment has already been considered and a final Office Action is forthcoming. The undersigned also determined today from the Group 2500 Receptionist that the final Office Action has not yet been mailed. Applicant is not unmindful of the burden to the Examiner created by filing the present supplemental amendment to add more claims after the Examiner has already considered the previous claims. However, due to the urgency created by the discovery of

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Birang's pending applications and the importance of formally bringing these applications to the Examiner's attention, applicant decided it was necessary to file these claims by facsimile immediately without further delay. After receiving an action on these claims, applicant will determine whether to separate the issues in this case by filing a continuation application.

Applicant wishes to point out a typographical error on page 7 of the previous Amendment. The penultimate paragraph of page 7 should read "[a]ccordingly, withdrawal of the rejection under the second paragraph of 35 U.S.C. § 112 is requested" (the underlined portion was inadvertently omitted).

In view of the above amendments and remarks, favorable reconsideration and allowance of this application are requested. In the event that any issues remain, the Examiner is invited to telephone the office of the undersigned if it would expedite prosecution.

Respectfully submitted,

Stephen B. Maebius Reg. No. 35,264

March 13, 1997

Date

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EP 0 738 561 A1

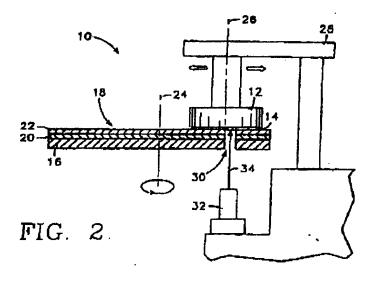
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- (54) Apparatus and method for in-situ endpoint detection and monitoring for ohemical mechanical polishing operations
- (57) The disclosure relates to an apparatus for chamical mechanical polishing (CMP) of a wafer, comprising: a rotatable polishing patent (18) with an overlying polishing pad (18) wetted with an abrasive alurry, the platen being rotatably mounted to a cheasis; a rotatable polishing head (12) for holding the water (14) against the polishing pad, the water comprising a semiconductor substrate underlying an oxide tayer; and an endpoint

detector. The detector comprises a laser interferometer (32) capable of generating a laser beam directed towards the water and detecting light reflected from the water, and a window (38) disposed adjacent a hole (30) formed through the platen, the window providing a pathway for the laser beam to impings on the water at least during part of a period of time when the water overties the window,



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